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\$291,598, compared with 365,702 fine ounces, valued at \$197,479, in 1910. Of the 1911 production 497,281 ounces came from the copper lodes of Michigan. The output of copper from the central states in 1911 came from the states of Michigan and Missouri and amounted to 220,480,513 pounds. Of this production 219,840,201 pounds came from Michigan. The mine production of lead in the central states in 1911 was 188,669 short tons, which, rated at the average New York price for the metal for the year (\$90 a ton), was valued at \$16,980,210, compared with 171,226 short tons, valued at \$15,067,888, in 1910. Missouri produced 95 per cent. of the yield of the central states and about 44 per cent. of the primary lead recovered in the United States from domestic ore. The production of zinc in the central states in 1911, based on mine returns with a deduction for separating and smelting losses, was 172,698 short tons, valued at \$19,687,572; the production for 1910 was 178,784 short tons, valued at \$19,308,672. Missouri was the largest producer of zinc in the United States, although its production, 122,515 tons, was slightly less than in 1910.

UNIVERSITY AND EDUCATIONAL NEWS

WORK has been begun at Harvard University on the three freshman dormitories which are to stand near the bank of the Charles River, south of the main body of university buildings. It is understood that Mrs. Russell Sage is one of the large contributors to the fund of \$1,800,000 which is now nearly completed for these dormitories.

GROUND has been broken for the north wing of the new electrical laboratory of the Sheffield Scientific School. It will cost about \$115,000, of which \$75,000 is a gift made by A. C. Dunham, Yale, '54, of Hartford, Conn.

THE trustees of Wesleyan University have voted to build an astronomical observatory at a cost of \$60,000.

THE Queen Wilhelmina chair in Dutch history, literature and language will be established at Columbia University, supported

jointly by the university and by funds raised for the purpose in Holland.

THE first event in the opening of the Peter Bent Brigham Hospital at the Harvard Medical School was the opening of a class for nurses in the ward building on October 31. On the same date the hospital took over the Harvard Clinic, which will be the first continuous clinic in Boston. Patients will be admitted to the hospital about the middle of January.

ON October 23 the corner stone of the library and administration building for the University of Utah was laid with appropriate ceremonies. This building is to occupy the central position at the head of the street upon which the campus faces. The superstructure will be of Sanpete oolite, and the foundation of Temple granite from Little Cottonwood Canyon. When completed it will house the library, the administrative offices, the art gallery, the archeological museum and a spacious auditorium, as well as rest rooms for men and women. The cost will be more than \$300,000.

A RECENT analysis of the professional distribution of the graduates of Oberlin College reveals the fact that teaching has been the most prominent field of endeavor. The total number of graduates of the academic department, including men and women, is 3,385 (when the same person has taken more than one degree he has been considered but once). Of these, 1,244, or 36.8 per cent. have gone into the profession of teaching. If the group of unclassified is left out of consideration, thus omitting many women with no profession, the proportion of graduates entering teaching is even more striking, since one out of every two has become a teacher. From a total of 1,682 men graduating from the academic department, 392, or nearly 25 per cent., were teachers. Of the women, 853 out of a total of 954 classed in any profession have taught.

PROFESSOR T. J. HEADLEE, head of the department of entomology and zoology in the

Kansas State Agricultural College and Experiment Station, has resigned to become state entomologist of New Jersey, succeeding the late John B. Smith. In Dr. Headlee's place at the Kansas College and Experiment Station, Geo. A. Dean, M.S., has been placed in charge of entomology and Robert K. Nabours, Ph.D. (Chicago), in charge of zoology. Further promotions and additions in the department have been as follows: John W. Scott, Ph.D. (Chicago), has been promoted from instructor to assistant professor of zoology; Maurice C. Tanquary, Ph.D. (Illinois), has been appointed instructor in entomology, and Mary T. Harmon, Ph.D. (Indiana), in zoology and J. W. McCulloch has been appointed assistant entomologist.

DR. C. J. STEINMETZ, formerly managing editor of *Country Life in America*, has been appointed assistant professor of landscape horticulture at the University of Illinois, and Ralph Rodney Root, of Harvard University, has been appointed instructor. A number of prominent specialists in landscape gardening will lecture before the students this year; Mr. Charles Mulford Robinson, a specialist in city planning, will lecture for two weeks beginning on November 8. There are thirty students in the four-year course in landscape gardening and one hundred and fifty in the elementary course.

THE vacancy in the staff of the mechanical engineering department of Lehigh University, due to the death of Assistant Professor E. L. Jones, has been filled by the appointment of R. L. Spencer, B.S. Mr. Spencer is a graduate of the Iowa State College, where he has taught for three years.

BARTGIS McGLONE, Ph.D. (Hopkins, '07), has been appointed associate in physiology and embryology at the College of Physicians and Surgeons, Baltimore.

AMONG the committees appointed by the board of overseers of Harvard University for the year 1912-13 are the following:

The Medical and Dental Schools—J. Collins Warren, George B. Shattuck, Charles W. Eliot, Alexander Cochrane, William Sturgis Bigelow,

Henry H. Sprague, Henry Saltonstall Howe, William L. Richardson, Charles P. Briggs, James C. White, Charles H. Tweed.

The Bussey Institution—Carroll Dunham, Walter C. Baylies, J. Arthur Beebe, John Lowell, Nathaniel T. Kidder, Augustin H. Parker, William H. Ruddick, Isaac S. Whiting, Simon Flexner, Daniel W. Field, Warren A. Reed.

The Observatory—Joel H. Metcalf, George I. Alden, Mrs. Henry Draper, Edwin Ginn, George R. Agassiz, Elihu Thomson, Erasmus D. Leavitt, Charles F. Choate, Jr., Charles R. Cross.

The Museum of Comparative Zoology—J. Collins Warren, George P. Gardner, Dudley L. Pickman, Rodolphe L. Agassiz, John C. Phillips, J. B. Henderson, Jr., Louis J. de Milhau.

The Peabody Museum—George D. Markham, Charles P. Bowditch, Augustus Hemenway, Jesse W. Fewkes, Clarence J. Blake, Clarence B. Moore, Elliot C. Lee, Louis J. de Milhau, John C. Phillips, Thomas Barbour, Robert G. Fuller.

The Jefferson Physical Laboratory and Department of Physics—Howard Elliott, Elihu Thomson, Erasmus D. Leavitt, Elliot C. Lee, Samuel Hill, Hammond Vinton Hayes.

The Chemical Laboratory—J. Collins Warren, Clifford Richardson, Elihu Thomson, Charles H. W. Foster, John D. Pennock, Alexander Forbes.

On Geology, Mineralogy and Petrography—George B. Leighton, Rodolphe L. Agassiz, George P. Gardner, William E. C. Eustis, Raphael Pumpelly, William Sturgis Bigelow.

On Zoology—William L. Richardson, Augustus Hemenway, William Brewster, Alexander Forbes, John E. Thayer, Dudley L. Pickman, Francis N. Balch, John C. Phillips.

On Botany—Nathaniel C. Nash, George G. Kennedy, Walter Deane, Edward L. Rand.

On Mathematics—William Lowell Putnam, George E. Roosevelt, George V. Leverett, Philip Stockton.

DISCUSSION AND CORRESPONDENCE

THE MEANING OF DRIESCH AND THE MEANING OF VITALISM

PROFESSOR JENNINGS's letter in *SCIENCE* of October 4, 1912, contains some comments on an article by the present writer, published in *SCIENCE*, July 21, 1911. These appear to manifest some misapprehension, confirmed by some inadvertent misquotation, of the article in